

**WHAT IS CLAIMED IS:**

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1. A needle hub assembly comprising:  
a needle hub defining an interior cavity and at least one fin being disposed therein, wherein,  
the at least one fin engages (a barrel tip) when disposed within the interior cavity.
  2. A needle hub assembly as recited in claim 1, wherein the barrel tip is elongated and extends from a distal end of a barrel.
  3. A needle hub assembly as recited in claim 1, wherein the interior cavity has a substantially annular configuration.
  4. A needle hub assembly as recited in claim 1, wherein the barrel tip forms a substantial seal adjacent the at least one fin.
  5. A needle assembly comprising:  
a needle hub including a needle support and defining an interior cavity about at least a portion of the needle support, the interior cavity having at least one fin formed therein;  
and  
a barrel having a proximal end and a distal end, the distal end supporting the needle hub and including an elongated barrel tip extending therefrom, the barrel tip being received within the interior cavity of the needle hub and engaging the at least one fin.
  6. A needle assembly as recited in claim 5, wherein the barrel tip forms a substantial seal with the needle support.

7. A needle assembly as recited in claim 5, wherein the barrel tip forms a substantial seal with the needle support adjacent the at least one fin.

8. A needle assembly as recited in claim 5, wherein the interior cavity of the needle hub has a plurality of fins formed therein.

5 9. A needle assembly as recited in claim 5, wherein the interior cavity of the needle hub has four fins formed therein.

10. A needle assembly as recited in claim 5, wherein the needle hub includes a hub skirt mounted to the distal end of the barrel.

11. A needle assembly as recited in claim 10, wherein the interior cavity is defined between the hub skirt and the needle support.

12. A needle assembly as recited in claim 5, wherein the needle support defines a needle cavity having at least a portion of a needle cannula disposed therein.

13. A needle assembly as recited in claim 12, wherein the interior cavity and the needle cavity are coaxial.

14. A needle assembly as recited in claim 12, wherein the interior cavity and the needle cavity are in substantially parallel alignment.

15. A needle assembly as recited in claim 5, wherein the barrel is configured for receipt of a plunger.

16. A needle assembly as recited in claim 15, wherein the plunger is configured to engage a proximal opening of the needle support.

17. A needle assembly as recited in claim 5, wherein at least a portion of the needle cannula is disposed with the needle support adjacent a proximal end thereof.

18. A needle assembly comprising:  
a barrel including a barrel tip; and  
a needle hub means for engaging the barrel tip.

19. A needle hub comprising:

5 a needle support, a hub skirt and an annular interior cavity defined therebetween, the needle support defining a needle cavity in coaxial alignment with the interior cavity, the needle cavity having a needle cannula disposed therein and having at least a portion thereof disposed adjacent a proximal end of the needle support, the interior cavity having four fins formed at a distal portion thereof.

20. A syringe comprising:

10 a needle support, a hub skirt and an annular interior cavity defined therebetween, the needle support defining a needle cavity in coaxial alignment with the interior cavity, the needle cavity having a needle cannula disposed therein and having at least a portion thereof disposed adjacent a proximal end of the needle support, the interior cavity having four fins formed at a distal portion thereof;

15 a barrel having a proximal end and a distal end, the hub skirt being mounted to the distal end of the barrel and the distal end including an elongated barrel tip, the barrel tip being received within the interior cavity, the barrel tip engaging the four fins and forming a substantial seal with the needle hub adjacent the four fins; and

20 a plunger being slidably received by the barrel and having a distal end configured to engage the proximal end of the needle support.

- 25 21. A needle hub defining an interior cavity and having at least one fin, the at least one fin having an engagement surface disposed within the interior cavity.

23. A needle hub as recited in claim 21, further comprising a barrel having a distal end and a hub skirt, wherein the hub skirt is mounted to the distal end of the barrel.

25. A needle hub as recited in claim 24, wherein the needle support defines a needle cavity having at least a portion of a needle cannula disposed therein.

26. A needle hub as recited in claim 25, wherein the interior cavity and the needle cavity are coaxial.

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